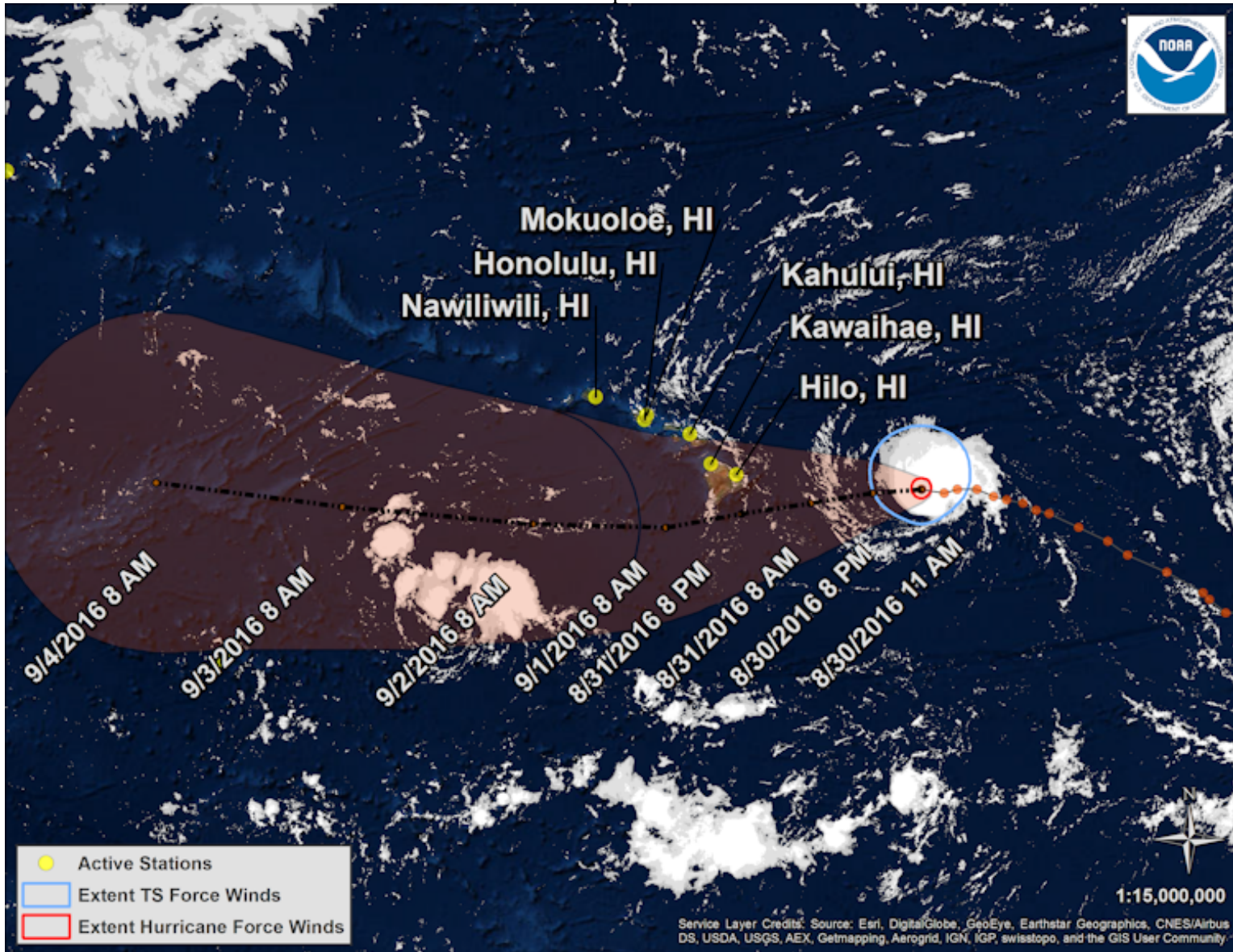


Hurricane MADELINE QuickLook Posted: 12:00 HST 08/30/2016

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 8/30/2016 12:00 HST, water levels across the Hawaiian Islands are slightly elevated and range between 0.2 and 0.9 feet above normal tide levels. Winds are generally 15 knots or less with slightly higher gusts around the big Island. Barometric pressure has not yet begun to fall across the area.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: CRD

SELECT CENTRAL PACIFIC HURRICANE CENTER ADVISORY INFORMATION: HURRICANE MADELINE
ADVISORY NUMBER 16
NWS CENTRAL PACIFIC HURRICANE CENTER HONOLULU HI
1100 AM HST TUE AUG 30 2016

...MAJOR HURRICANE MADELINE TRACKING WESTWARD TOWARDS THE HAWAIIAN ISLANDS...

SUMMARY OF 1100 AM HST...2100 UTC...INFORMATION

LOCATION...19.3N 149.4W
ABOUT 370 MI E OF HILO HAWAII
ABOUT 565 MI ESE OF HONOLULU HAWAII
MAXIMUM SUSTAINED WINDS...115 MPH
PRESENT MOVEMENT...W OR 270 DEGREES AT 10 MPH
MINIMUM CENTRAL PRESSURE...967 MB

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:
A Hurricane Warning is now in effect for
* Hawaii County.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Hurricane Warning is now in effect for Hawaii County.

A Tropical Storm Watch is in effect for Maui County including the islands of Maui Molokai and Lanai

A Hurricane Warning means that hurricane conditions are expected within the warning area within the next 36 hours. Preparations to protect life and property should be rushed to completion.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area within 48 hours.

Interests elsewhere in the main Hawaiian Islands should monitor the progress of Madeline.

For storm information specific to your area, please monitor products issued by the National Weather Service office in Honolulu Hawaii.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 AM HST, the center of Hurricane Madeline was located near latitude 19.3 North, longitude 149.4 West.

Madeline is moving toward the west near 10 mph. This motion is expected to continue today, followed by a turn toward the west-southwest tonight through early Thursday. On the forecast track, the center of Madeline will pass dangerously close to the Big Island of Hawaii Wednesday and Wednesday night.

Maximum sustained winds are near 115 mph with higher gusts. Madeline is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some weakening is forecast during the next 48 hours.

Hurricane-force winds extend outward up to 25 miles from the center and tropical-storm-force winds extend outward up to 125 miles.

The estimated minimum central pressure is 967 mb.

HAZARDS AFFECTING LAND

WIND: Hurricane conditions are expected over Hawaii County on Wednesday into early Thursday. Tropical storm conditions are possible over Maui County, including the islands of Maui Molokai and Lanai, on Wednesday into early Thursday.

SURF: Swells generated by Madeline are expected to build from east to west across the Hawaiian Islands today and tonight, possibly becoming damaging along east facing shorelines of Hawaii County and eastern portions of the Island of Maui on Wednesday and Thursday.

RAIN: Heavy rains associated with Madeline may reach Hawaii County on Wednesday, and may impact other Hawaiian Islands later Wednesday through Thursday. Madeline is expected to produce total rain accumulations of 5 to 10 inches, with isolated maximum amounts near 15 inches, across the Big Island, especially over windward portions. This rainfall may lead to dangerous flash floods and mudslides.
Madeline may produce up to 4 inches of rainfall across Maui County.

NEXT ADVISORY

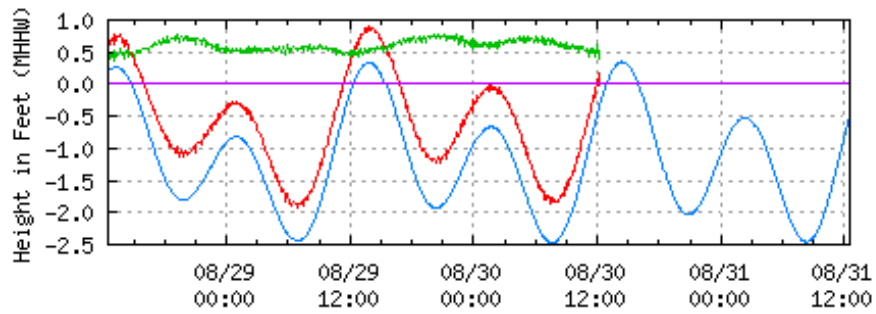
Next intermediate advisory at 200 PM HST.
Next complete advisory at 500 PM HST.

Forecaster Wroe

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Hilo, Hilo Bay, Kuhio Bay - Water Level](#), [Hilo, Hilo Bay, Kuhio Bay - Winds](#), [Hilo, Hilo Bay, Kuhio Bay - Barometric](#), [Kawaihae - Water Level](#), [Kawaihae - Winds](#), [Kawaihae - Barometric](#), [Kahului, Kahului Harbor - Water Level](#), [Kahului, Kahului Harbor - Winds](#), [Kahului, Kahului Harbor - Barometric](#), [Mokuoloe - Water Level](#), [Mokuoloe - Winds](#), [Mokuoloe - Barometric](#), [Honolulu - Water Level](#), [Honolulu - Winds](#), [Honolulu - Barometric](#), [Nawiliwili - Water Level](#), [Nawiliwili - Winds](#), [Nawiliwili - Barometric](#)

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/30/2016 12:12 (HST). Data relative to MHHW

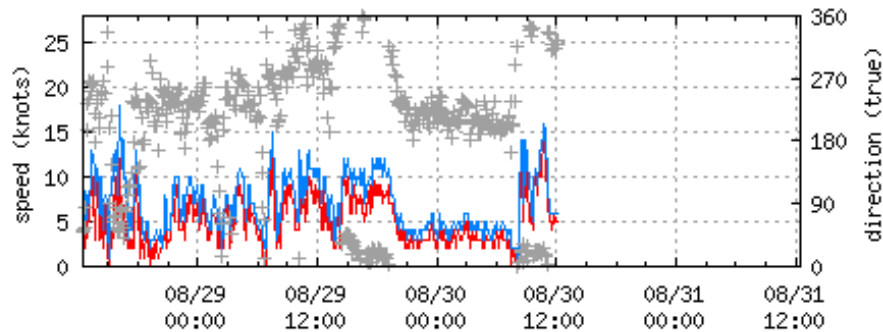
Observed: 0.17 ft. Predicted: -0.35 ft. Residual: 0.52 ft.

Historical Maximum Water Level: Jan 20 1981, 1.37 ft.

Next High Tide: 08/30/2016 14:25 (HST), 0.35 ft.

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI

Wind Speed / Gusts / Direction

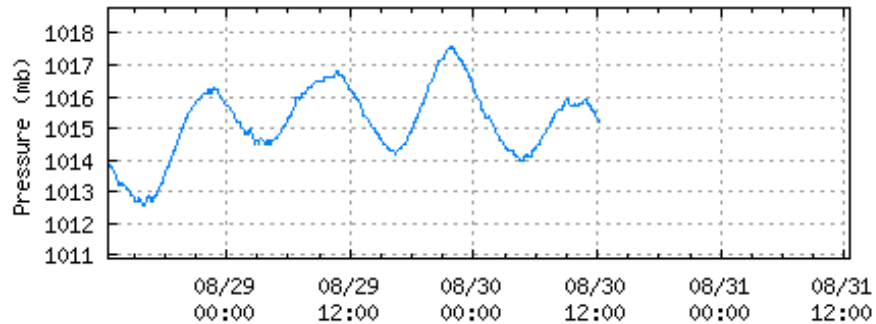


speed — gusts — direction +

Last Observed Sample: 08/30/2016 12:12 (HST)

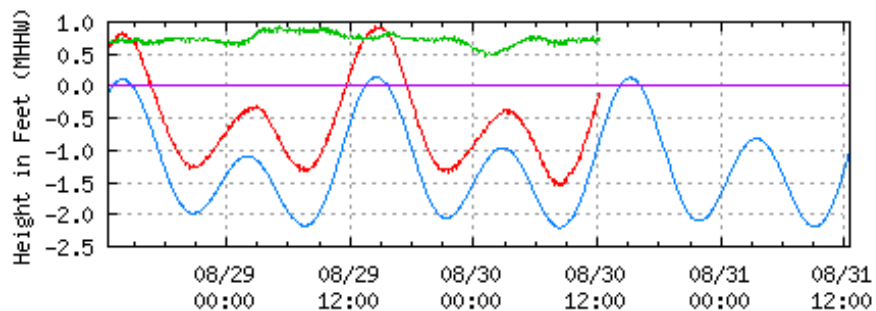
Wind Speed: 5 knots Gusts: 6 knots Direction: 324° T

NOAA/NOS/CO-OPS 1617760 Hilo, Hilo Bay, Kuhio Bay, HI
Barometric Pressure



barometric pressure —
Last Observed Sample: 08/30/2016 12:12 (HST)
Barometric Pressure: 1015.2 mb

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)

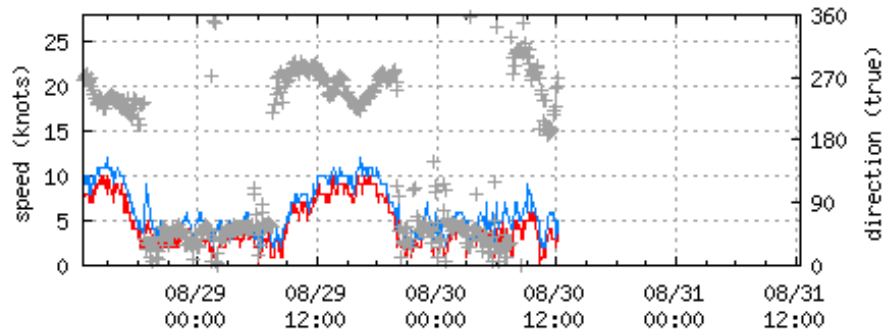


Predicted Tide — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 08/30/2016 12:12 (HST). Data relative to MHHW
Observed: -0.13 ft. Predicted: -0.85 ft. Residual: 0.72 ft.
Historical Maximum Water Level: Dec 13 2008, 1.22 ft.
Next High Tide: 08/30/2016 15:12 (HST), 0.13 ft.

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

Wind Speed / Gusts / Direction



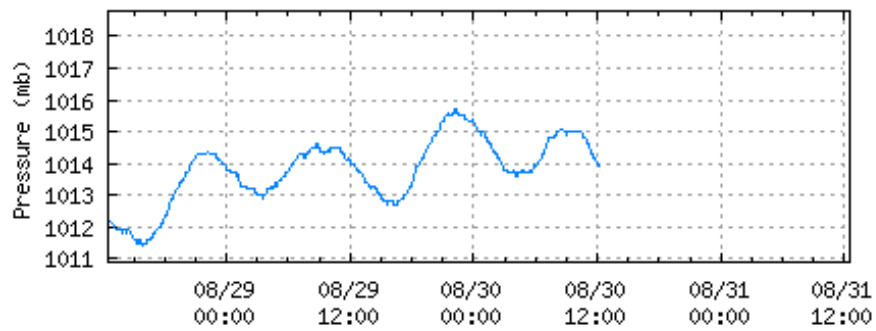
speed — gusts — direction +

Last Observed Sample: 08/30/2016 12:12 (HST)

Wind Speed: 4 knots Gusts: 5 knots Direction: 268° T

NOAA/NOS/CO-OPS 1617433 Kawaihae, HI

Barometric Pressure

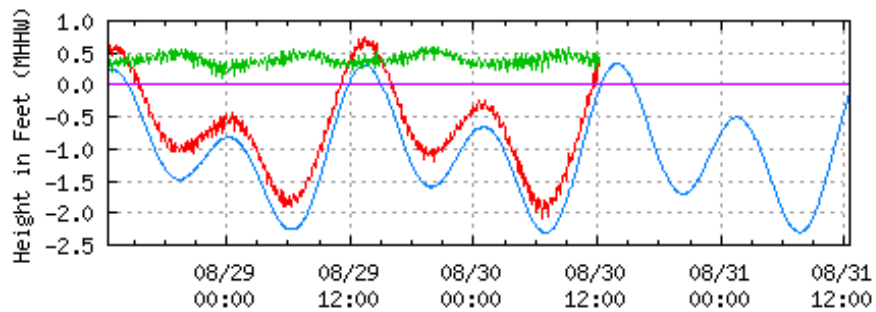


barometric pressure —

Last Observed Sample: 08/30/2016 12:12 (HST)

Barometric Pressure: 1013.9 mb

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI
Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Predicted Tide — (Obs-Pred) —
Observed WL — MHHW —

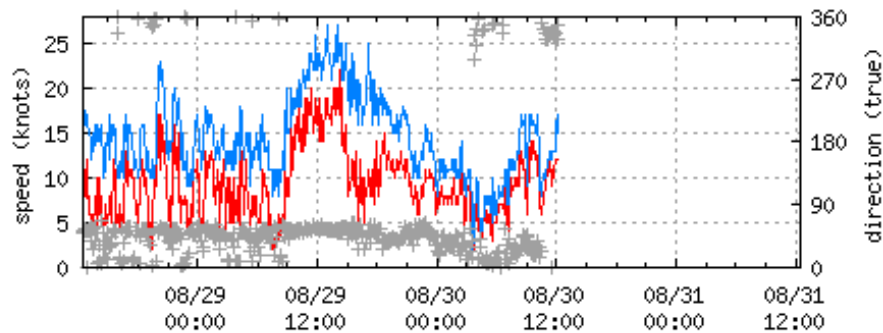
Last Observed Sample: 08/30/2016 12:12 (HST). Data relative to MHHW

Observed: 0.32 ft. Predicted: -0.05 ft. Residual: 0.37 ft.

Historical Maximum Water Level: Dec 20 1968, 1.23 ft.

Next High Tide: 08/30/2016 13:55 (HST), 0.33 ft.

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI
Wind Speed / Gusts / Direction

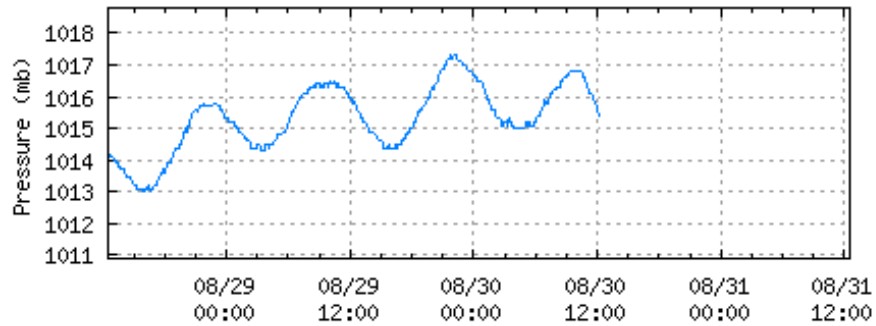


speed — gusts — direction +

Last Observed Sample: 08/30/2016 12:12 (HST)

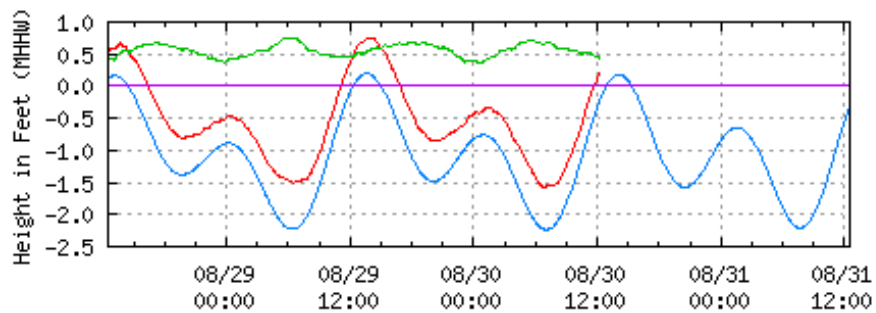
Wind Speed: 12 knots Gusts: 15 knots Direction: 348° T

NOAA/NOS/CO-OPS 1615680 Kahului, Kahului Harbor, HI
Barometric Pressure



barometric pressure —
Last Observed Sample: 08/30/2016 12:12 (HST)
Barometric Pressure: 1015.4 mb

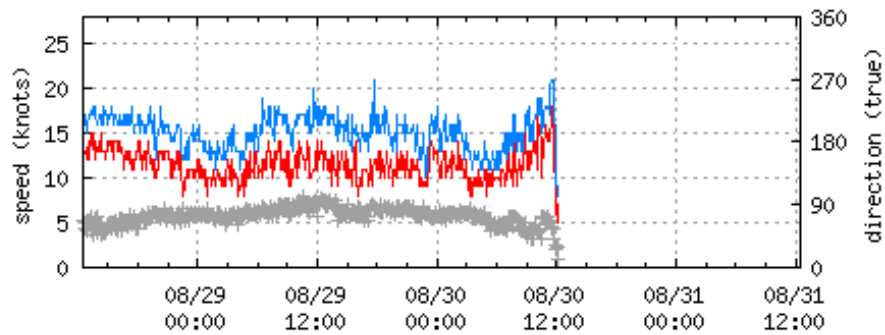
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI
Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Predicted Tide — (Obs-Pred) —
Observed WL — MHHW —

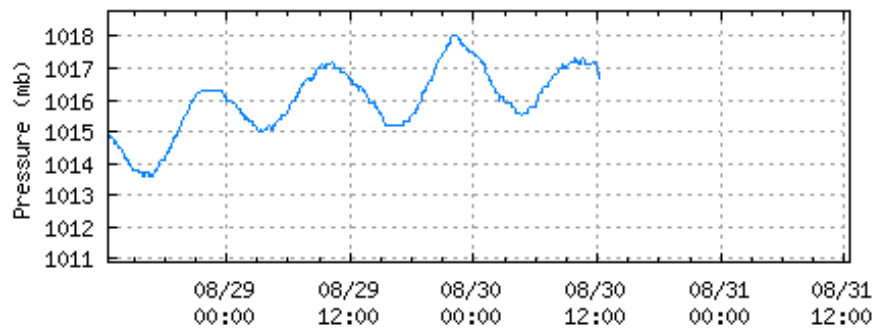
Last Observed Sample: 08/30/2016 12:12 (HST). Data relative to MHHW
Observed: 0.20 ft. Predicted: -0.23 ft. Residual: 0.43 ft.
Historical Maximum Water Level: Jan 8 1974, 1.46 ft.
Next High Tide: 08/30/2016 14:06 (HST), 0.18 ft.

NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI
Wind Speed / Gusts / Direction

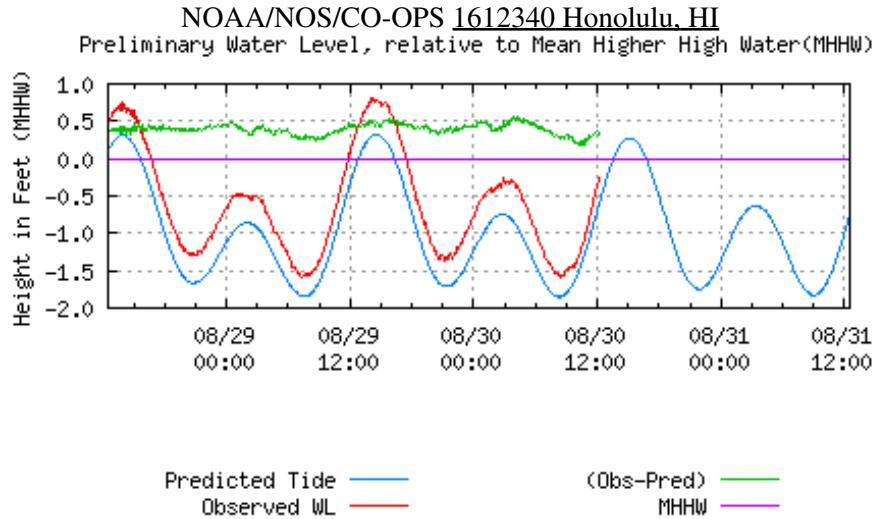


speed — gusts — direction +
Last Observed Sample: 08/30/2016 12:12 (HST)
Wind Speed: 5 knots Gusts: 8 knots Direction: 12° T

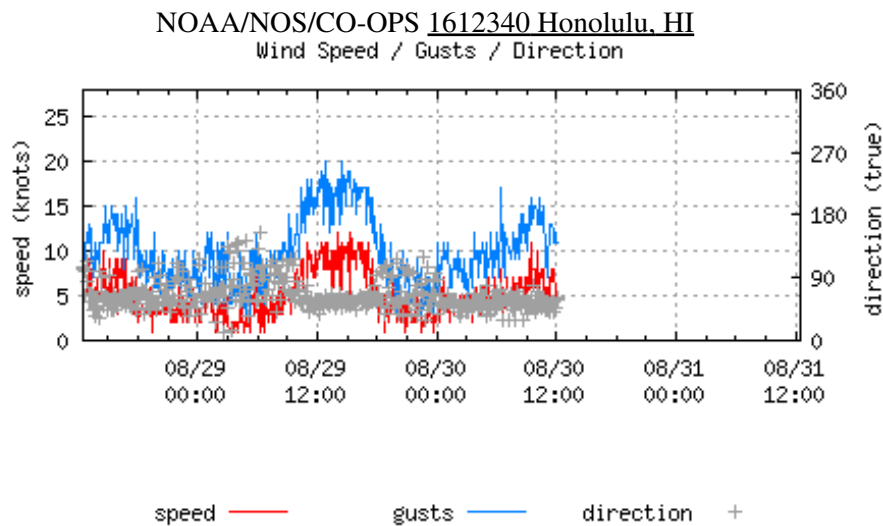
NOAA/NOS/CO-OPS 1612480 Mokuoloe, HI
Barometric Pressure



barometric pressure —
Last Observed Sample: 08/30/2016 12:12 (HST)
Barometric Pressure: 1016.7 mb

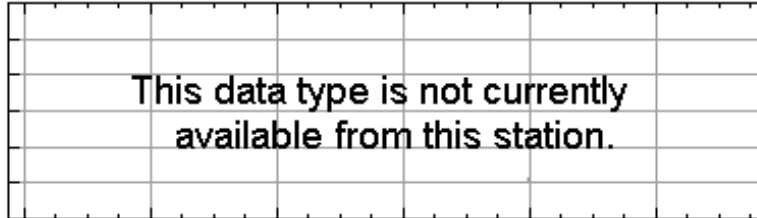


Last Observed Sample: 08/30/2016 12:12 (HST). Data relative to MHHW
Observed: -0.24 ft. Predicted: -0.58 ft. Residual: 0.34 ft.
 Historical Maximum Water Level: Feb 14 1967, 1.49 ft.
 Next High Tide: 08/30/2016 15:10 (HST), 0.28 ft.

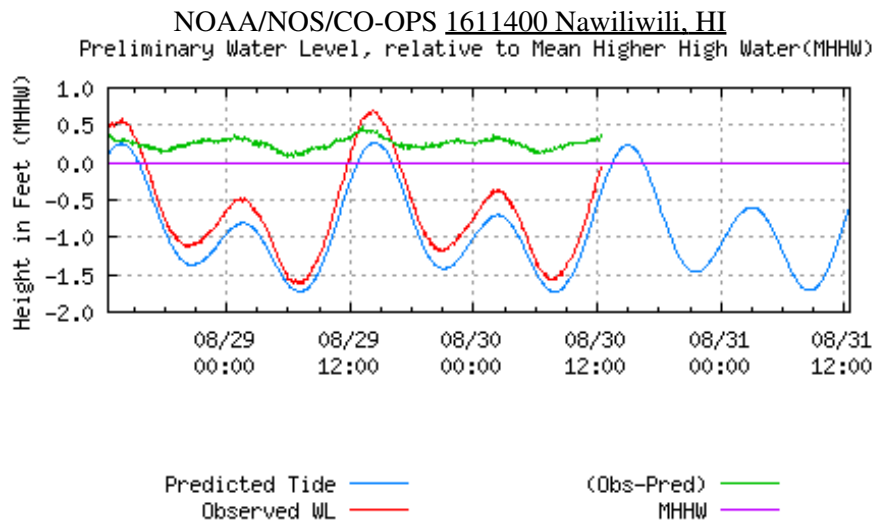


Last Observed Sample: 08/30/2016 12:12 (HST)
Wind Speed: 4 knots Gusts: 11 knots Direction: 62° T

NOAA/NOS/CO-OPS 1612340 Honolulu, HI
 NOAA/NOS/CO-OPS



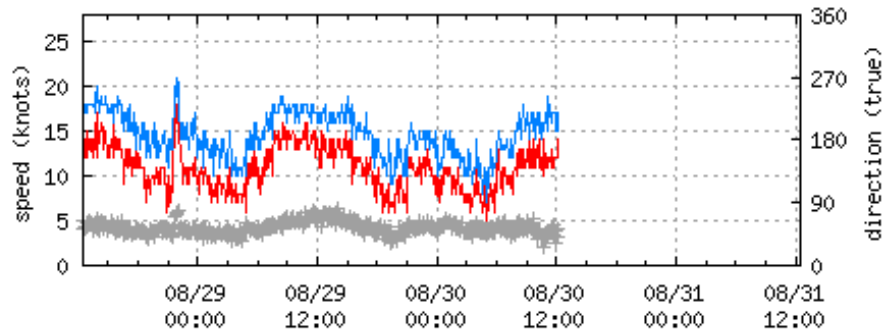
Last Observed Sample: 08/30/2016 12:12 (HST)
 Barometric Pressure: 1016.6 mb



Last Observed Sample: 08/30/2016 12:18 (HST). Data relative to MHHW
Observed: -0.05 ft. Predicted: -0.41 ft. Residual: 0.36 ft.
 Historical Maximum Water Level: Sep 11 1992, 3.15 ft.
 Next High Tide: 08/30/2016 14:59 (HST), 0.23 ft.

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI

Wind Speed / Gusts / Direction



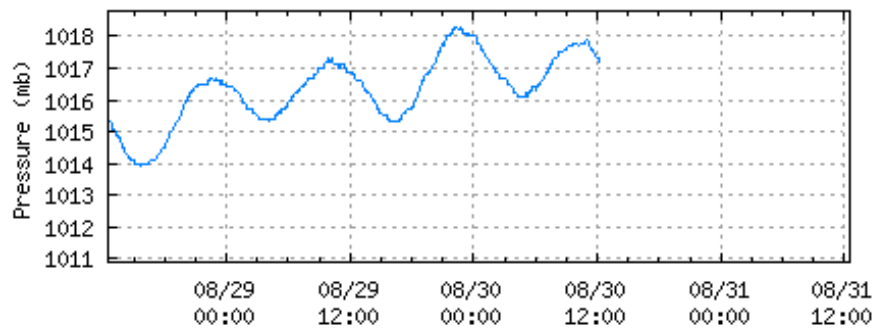
speed — gusts — direction +

Last Observed Sample: 08/30/2016 12:18 (HST)

Wind Speed: 14 knots Gusts: 17 knots Direction: 54° T

NOAA/NOS/CO-OPS 1611400 Nawiliwili, HI

Barometric Pressure



barometric pressure —

Last Observed Sample: 08/30/2016 12:18 (HST)

Barometric Pressure: 1017.2 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
1617760	Hilo, Hilo Bay, Kuhio Bay, HI	08/30/2016 12:12 (HST)	0.17 ft	-0.35 ft	0.52 ft	0.89 ft
1617433	Kawaihae, HI	08/30/2016 12:12 (HST)	-0.13 ft	-0.85 ft	0.72 ft	0.92 ft
1615680	Kahului, Kahului Harbor, HI	08/30/2016 12:12 (HST)	0.32 ft	-0.05 ft	0.37 ft	0.76 ft
1612480	Mokuoloe, HI	08/30/2016 12:12 (HST)	0.20 ft	-0.23 ft	0.43 ft	0.75 ft
1612340	Honolulu, HI	08/30/2016 12:12 (HST)	-0.24 ft	-0.58 ft	0.34 ft	0.80 ft
1611400	Nawiliwili, HI	08/30/2016 12:18 (HST)	-0.05 ft	-0.41 ft	0.36 ft	0.70 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce